



Krishna University

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(Established under AP Act No. 29 of 2008)

Machilipatnam, Andhra Pradesh, India - 521004



**BOARD OF STUDIES IN COMMON VALUE ADDED
COURSE (**ENVIRONMENTAL EDUCATION**)**

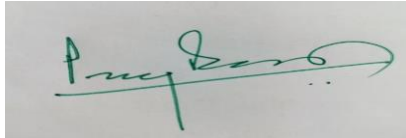
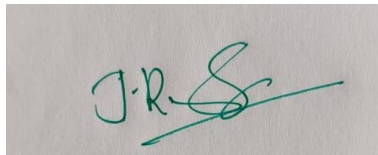

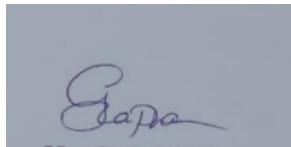
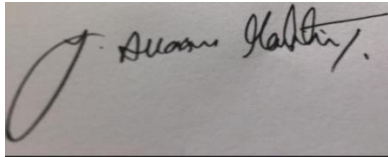

FOR **V SEMESTER UG PROGRAMME FROM 2025-26
ONWARDS**



17-03-2025

Report on Board of Studies

The meeting of the Board of Studies in Environment Education (Common Value Added Course)is held on 17th March 2025 at 4 PM through online mode under the Chairmanship of Dr.R.Praveen Dathu , lecturer in Zoology , Government Degree College, Tiruvuru. The composition of Board of Studies is as follows:

UG BOARD OF STUDIES FOR ENVIRONMENTAL EDUCATION		
Designation	Name of the Faculty	Signature
Chairman	Dr. R Praveen Dathu. Government Degree College, Tiruvuru Mobile: 9441348194, E-Mail: praveendathurajala@gmail.com	
Member	Dr.J.Ramudu Dr.L.H.R. Government Degree College, Mylavaram Mobile: 9440945934, E-Mail : ramuorchidman@gmail.com	
Member	Dr.K.Sudhakar SRR&CVR Govt.Degree College, Vijayawada .8985685227 E-mail: sudhakarkurmeti06@gmail.com	 Dr. K. Sudhakar
Member	Ms.G.Swapna SRR&CVR Govt.Degree College, Vijayawada 8179094434 E- mail:swapnagadala@gmail.com	
University Nominee	Prof:YAVASN Maruthi Department of Biosciences & Bio- technology,KRU Machilipatnam 9885243126 maruthikrishnauniversity@gmail.com	
Student Nominee	Ms.Rachabanti Sumasri, II BSC(Zoology),GDC,Tiruvuru	 Ms.R.Sumasri

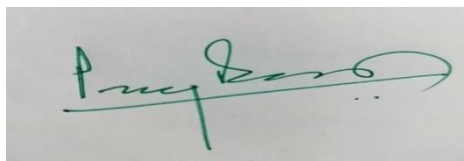
Minutes and Resolutions of Board of Studies Meeting

As per the instructions of the Registrar, Krishna university Machilipatnam, Environment Education Bos Members has conducted Board of Studies meeting to approve the syllabi, blueprint Common Value Course for Single major Course under the chairmanship of Dr.R.Praveen Dathu , lecturer in Zoology , Government Degree College, Tiruvuru on 17th March 2025. The above committee members have attended the meeting to approve the syllabus for the academic year 2025-26(onwards) through online mode.

The members discussed in detail the various aspects presented before them and unanimously resolved the following:

Agenda, Discussion & Resolutions

Agenda 1	Approval of the new syllabus which was designed by Andhra Pradesh State Council for Higher Education for V semester for the academic year 2025-26
Discussion	The University Representative and members asked about the changes made in the credits of courses, and framework of the courses. The chairman and faculty members explained the changes made in the courses. Its is resolved to follow the syllabus prescribed by APSCHE as it is without any changes .
Resolution	It is resolved to approve the Common Value Added Course (Environmental Education) structure and Syllabi for Vth semester from the Academic year 2025-26 onwards.
Agenda 2	Approval of Model Question papers and Blueprint.
Discussion	Broadly discussed about Question paper model and Blueprint.
Resolution	It is resolved to follow the blueprint in the preparation of question papers without any deviations.
Agenda 3	Any other item with the approval of the chair.
Discussion	



Dr.R.Praveen Dathu
Chairman, Board of Studies

QUESTION PAPER BLUE PRINT MODELTOTAL MARKS : 50TIME :90 MIN

SECTION-A		
Short Answer Questions	4 out of 7	Marks=5x4=20 MARKS
SECTION -B	3 questions out of 6	
LongAnswersEssayType (With Choice)		Marks=3x10=30 MARKS



ANDHRAPRADESH STATE COUNCIL OF HIGHER EDUCATION

COMMON VALUE-ADDED COURSE

w.e.f. AY 2023-24

ENVIRONMENTAL EDUCATION

Credits: 2

2 hrs/week

Course objective: A Generic Course intended to create awareness that the life of human beings is an integral part of environment and to inculcate the skills required to protect environment from all sides.

Learning outcomes: On completion of this course the students will be able to....

1. Understand the nature, components of an ecosystem and that humans are an integral part of nature.
2. Realize the importance of environment, the goods and services of a healthy biodiversity, dependence of humans on environment.
3. Evaluate the ways and illeffects of destruction of environment, population explosion on ecosystems and global problems consequent to anthropogenic activities.
4. Discuss the laws/acts made by government to prevent pollution, to protect biodiversity and environment as a whole.
5. Acquaint with international agreements and national movements, and realize citizen's role in protecting environment and nature.

06Hrs.

1: Environment and Natural Resources

1. Multidisciplinary nature of environmental education; scope and importance.
2. Man as an integral product and part of the Nature.
3. A brief account of land, forest and water resources in India and their importance.
4. Biodiversity: Definition; importance of Biodiversity-ecological, consumptive, Productive, Social, Ethical, Moral and aesthetic and option value.
5. Levels of Biodiversity: genetic, species and ecosystem diversity.

Unit-2: Environmental degradation and impacts**10Hrs**

1. Human population growth and its impacts on environment; land use change, land degradation, soil erosion and desertification.
2. Use and over-exploitation of surface and ground water, construction of dams, floods, conflicts over water (within India).
3. Deforestation: Causes and effects due to expansion of agriculture, firewood, mining, forest fires and building of new habitats.
4. Non-renewable energy resources, their utilization and influences.
5. A brief account of air, water, soil and noise pollutions; Biological, industrial and solid wastes in urban areas. Human health and economic risks.
6. Green house effect - global warming; ocean acidification, ozone layer depletion, acid rains and impacts on human communities and agriculture.
7. Threats to biodiversity: Natural calamities, habitat destruction and fragmentation, over exploitation, hunting and poaching, introduction of exotic species, pollution, predator and pest control.

Unit 3: Conservation of Environment**10 Hrs**

1. Concept of sustainability and sustainable development with judicious use of land, water and forest resources; afforestation.
2. Control measures for various types of pollution; use of renewable and alternate sources of energy.
3. Solid waste management: Control measures of urban and industrial waste.
4. Conservation of biodiversity: In-situ and ex-situ conservation of biodiversity.
5. Environment Laws: Environment Protection Act; Act; Wildlife Protection Act; Forest Conservation Act.
6. International agreements: Montreal and Kyoto protocols; Environmental movements: Bishnois of Rajasthan, Chipko, Silent valley.

Suggested activities to learner: (4 hours)

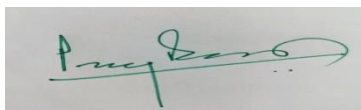
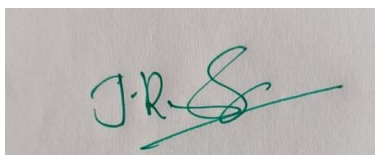

1. Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc
2. Visit to a local polluted site-Urban/Rural/Industrial/Agricultural site.
3. Study of common plants, insects, birds and basic principles of identification.
4. Study of simple ecosystems-forest, tank, pond, lake, mangroves etc.
5. Case study of a Forest ecosystem or a pond ecosystem.

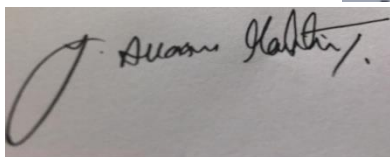
Suggested textbook :

- Erach Barucha (2004) *Textbook of Environmental Studies for Undergraduate courses* (Prepared for University Grants Commission) Universities Press.
- Purnima Smarath (2018) *Environmental studies* Kalyani Publishers, Ludhiana

Reference books:

- Odum, E.P., Odum, H.T. & Andrews, J. (1971) *Fundamentals of Ecology*. Philadelphia: Saunders.
- Pepper, I.L., Gerba, C.P. & Brusseau, M.L. (2011). *Environmental and Pollution Science*. Academic Press.
- Raven, P.H., Hassenzahl, D.M. & Berg, L.R. (2012) *Environment*. 8th edition. John Wiley & Sons.
- Singh, J.S., Singh, S.P. and Gupta, S.R. (2014) *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi.
- Sengupta, R. (2003) *Ecology and economics: An approach to sustainable development*. OUP.
- Wilson, E. O. (2006) *The Creation: An appeal to save life on earth*. New York: Norton.
- Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll (2006) *Principles of Conservation Biology*. Sunderland: Sinauer Associates,




Dr. K. Sudhakar


R. Suma Sri
Ms. R. Sumasri

KRISHNA UNIVESITY**V SEMESTER -COMMON VALUE ADDED COURSE FOR ALL STREAMS****PAPER: ENVIRONMENTAL EDUCATION**

MAX MARKS: 50

TIME :90 MIN

SECTION –A**I. Answer any FOUR in the following****4×5=20**

1. Scope of Environmental education.
2. Water recourses in India
3. Noise pollution
4. Global warming
5. Chipko movement
6. Sustainable development
7. Wildlife protection act

SECTION –B**II. Answer any THREE in the following****3×10=30**

9. What is biodiversity? Explain the importance of Biodiversity?
10. Describe the brief account on forest resources in India?
11. Write an essay on Non renewable energy resources and their utilization in India?
12. How ozone layer depleting? Write a note on ozone depletion?
13. What is solid waste management? Explain control measures of urban and industrial waste?
14. What is conservation of Biodiversity? Explain the in-situ and ex-situ conservation?